

Applicant(s): P. Bonutti and M. Brillhart
Application No.: 10/630,321
Examiner: G. Jackson

Amendments to the Claims

1-10. (canceled)

11. (currently amended) A surgical device for implantation in a body comprising:
an implant, at least a portion of which is expandable; and
a polymeric material bonded to the implant,
wherein the polymeric material is a thermoplastic, and includes a therapeutic agent, is non-flowable and non-adherent at room temperature, and becomes flowable, tacky, and adherent upon the application of heat.

12. (original) The surgical device of claim 11 wherein the therapeutic agent is a tissue ingrowth promoter.

13. (original) The surgical device of claim 11 wherein the therapeutic agent is an antibiotic.

14. (original) The surgical device of claim 13 wherein the implant is made of metal.

15. (withdrawn) The surgical device of claim 14 wherein the implant includes a plurality of transverse ribs and a plurality of longitudinal ribs.

16. (withdrawn) The surgical device of claim 14 wherein the implant includes a plurality of barbs for enhancing tissue engagement.

17. (original) The surgical device of claim 16 wherein the polymeric material covers at least a portion of the implant.

18. (original) The surgical device of claim 17 wherein the polymeric material is bonded to the implant by the application of heat.

~~Attorney - Devenuti and M. Brillhart~~
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19. (original) The surgical device of claim 18 wherein the heat is limited to a temperature tolerated by a human body.
20. (original) The surgical device of claim 19 wherein the polymeric material has a transition temperature below about 190° C.
21. (withdrawn) A method for making a surgical device comprising the steps of:
providing an implant;
providing a flowable material with an antibiotic included within the flowable material;
and
bonding the flowable material to the implant prior to implantation in a patient.
22. (withdrawn) The method of claim 21 wherein the flowable material includes a tissue ingrowth promoter.
23. (withdrawn) The method of claim 21 wherein the flowable material is heated.
24. (withdrawn) The method of claim 23 wherein the flowable material is heated to a temperature below around 190° C.
25. (withdrawn) The method of claim 21 wherein the flowable material covers at least a portion of the implant.
26. (withdrawn) The method of claim 21 wherein the flowable material and at least a portion of the implant are made of a heat bondable material.
27. (currently amended) An implantable device for implantation in a human patient having a generally cylindrical body with a lumen extending longitudinally therethrough, at least a portion of the body including a metallic material and at least another portion of the body including a

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polymeric material bonded to the metallic material, the polymeric material including a therapeutic agent, being non-flowable and non-adherent at room temperature, and becoming flowable, tacky, and adherent upon the application of heat.

28. (previously presented) The device of claim 27 wherein a tissue-contacting surface of the body includes the polymeric material.

29. (previously presented) The device of claim 28 wherein the therapeutic agent is included within the polymeric material.

30. (previously presented) The device of claim 29 wherein the therapeutic agent is an antibiotic.

31. (previously presented) The device of claim 27 wherein at least a portion of the body is expandable.

32. (previously presented) The device of claim 31 wherein the expandable portion of the body conforms to tissue against which the expandable portion abuts.

33. (previously presented) The device of claim 32 wherein a tissue-contacting surface of the expandable portion of the body conforms to the tissue.

34. (previously presented) The device of claim 33 wherein the tissue-contacting surface is a vessel-contacting surface.

35. (withdrawn) The device of claim 27 wherein the body includes ribs.

36. (withdrawn) The device of claim 35 wherein the ribs are generally longitudinal to the body.